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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/806,439	03/23/2004	Noritaka Takahata	VX042605	1796	
21369	7590 09/13/2006		EXAMINER		
POSZ LAW GROUP, PLC			ALEXANDER, MICHAEL P		
12040 SOUT SUITE 101	H LAKES DR.		ART UNIT	PAPER NUMBER	
RESTON, V	RESTON, VA 20191		1742		
			DATE MAILED: 09/13/2000	DATE MAILED: 09/13/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
Office Action Summers		10/806,439	TAKAHATA ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Michael P. Alexander	1742				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exter after - If NO - Failu Any i	ORTENED STATUTORY PERIOD FOR REPLICENCE IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. of period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statutinely received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tind will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 29	lune 2006					
	This action is FINAL . 2b) ☐ This action is non-final.						
•=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
٠,۵	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
` 4)⊠	Claim(s) 1-8 is/are pending in the application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
· _	Claim(s) 1-8 is/are rejected.						
	Claim(s) is/are objected to.						
· · · · · · · · · · · · · · · · · · ·	Claim(s) are subject to restriction and/	or election requirement.					
	ion Papers	·					
			•				
, —	The specification is objected to by the Examin The drawing(s) filed on is/are: a) acceptance.	•	Evaminar				
ا_ا(۱۰	· · · · · · · · · · · · · · · · · · ·	•					
	Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct	•					
11)	The oath or declaration is objected to by the E		•				
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachmen							
	e of References Cited (PTO-892)	4) Interview Summary					
	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Dail Dail Dail Dail Dail Dail Dail D					
	r No(s)/Mail Date	6) Other:					

DETAILED ACTION

Claim(s) 1-8 is/are pending.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Harris (US 2002/0164263).

Regarding claim 1, Harris teaches (see Alloys CM 247 LC and CM 186 LC in Table 1) nickel-base heat resistant case alloys having, by weight percent, the claimed amounts of C, Si, Mn, Cr, Al, Co, W, Ta, Ti, Zr and B and the balance Ni and inevitable impurities, further inherently satisfying both the Al+Ti+Ta formula and the M-value formula. The Examiner asserts that the alloys would inherently have the claimed eutectoid area percentage and the claimed carbide percentage because the alloys have substantially the same composition and substantially the same processing. See MPEP 2112.01 I.

With respect to the recitation "consists essentially of in claim 1, it is the applicant's burden to establish that the amount of Mo, Re and Hf included in Alloys CM 247 LC and CM 186 LC is excluded from the claims by consisting essentially of language. See MPEP 2111.03.

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Regarding claim 2, Alloys CM 247 LC and CM 186 LC do not necessitate the presence of any Mg, Ca or REM.

Regarding claim 3, Alloys CM 247 LC and CM 186 LC further contain 0.5 wt% Mo.

Regarding claim 4, see the rejections of claims 2-3.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 5-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harris et al. as applied to claims 1-4 above, and further in view of the admitted prior art (see lines 16-20 in the background section of the specification of the instant application).

Regarding claims 5-8, the applicant admits (see lines 16-20 in the background section of the specification of the instant application) that turbine wheels for automobile

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engines require heat resistant property and enough strength at high temperatures.

Harris teaches (0001) that the alloy would have superior high temperature mechanical properties. It would have been obvious to one of ordinary skill in the art to combine the alloy of Harris with the turbine wheel of the admitted prior art because the alloy of Harris has superior high temperature mechanical properties.

Response to Arguments

Applicant's arguments filed 29 June 2006 have been fully considered but they are not persuasive.

First, applicant argues that Harris does not teach the claimed chromium range.

The Examiner disagrees. See Alloys CM 247 LC and CM 186 LC in Table 1.

Second, applicant argues that the "consisting essentially of" limitation excludes the about 3% Re content of Harris. In response, firstly the Examiner notes that Alloy CM 247 LC does not necessitate the addition of any Re. Secondly, see MPEP 2111.03. For the purposes of searching for and applying prior art under 35 U.S.C. 102 and 103, absent a clear indication in the specification or claims of what the basic and novel characteristics actually are, "consisting essentially of" will be construed as equivalent to "comprising". The applicant has not provided a clear indication of what the basic and novel characteristics actually are, and therefore applicant's further arguments do not distinguish the prior art alloys from the claimed invention.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael P. Alexander whose telephone number is 571-272-8558. The examiner can normally be reached on M-F 10:00 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy V. King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

mpa

ROY KING
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700